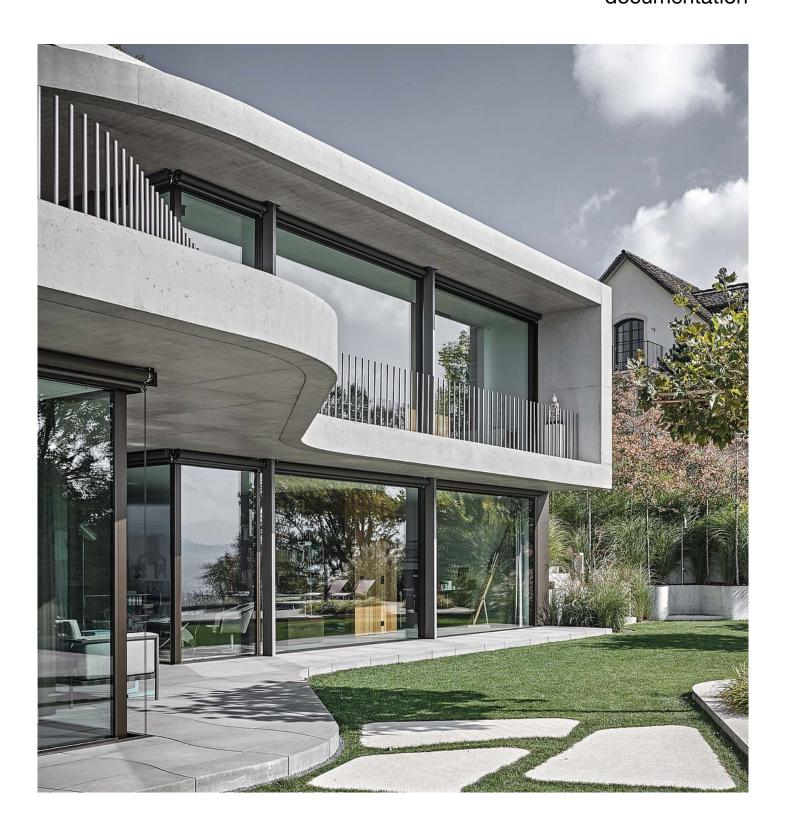


air-lux_® No Compromise.

Technical documentation





Official Partner

Certificate

This certificate confirms that

AUB Limited

fulfills all standards and criteria required of an official air-lux partner. Every air-lux partner understands and shares our commitment to highest quality standards — consistently and without compromise.

Engelburg, Switzerland, April 2018

Heinz Sauter Owner, CEO Lukas Knechtle Deputy Managing Director

air-lux. the frameless glass façade system that defies the elements.

air-lux is a floor-to-ceiling glass façade system with large surface sliding window and an unique air-assisted sealing concept. The maintenance-free air-lux solution with sliding casement windows up to 18m² was developed by Krapf AG, a leading Swiss metal and façade engineering company and complete service provider for quality solutions. With air-lux, Krapf AG offers architects, façade planners and building owners a versatile window façade system that is as architecturally and aesthetically appealing as it is structurally sound. air-lux installations are designed, engineered and manufactured in Switzerland. Since the first installation in 2004, over 5,000 sliding casement windows have been installed world-wide.

the new air-lux partner

AUB Ltd. is providing Door Access Solutions for Commercial, Institutional and Residential projects in Hong Kong and Macau. Our Products & Solutions including Automatic Doors, Windows & Entrance, Hardware & Interior Doors, Security Gates, Access Control and Industrial Doors. Service is our Value - we provide Technical Advice & Customized Drawings, Ironmongery Schedules, Master Key Plans, Supply & Installation, Contracting, Training and Service & Maintenance programs and Sourcing. AUB is closely working with façade consultants, contractors and engineering companies providing solutions for all type of high- and low-rise commercial and residential buildings.

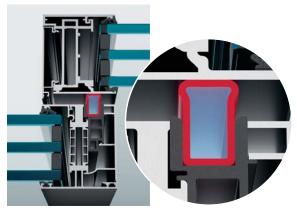
Our partnership aims to bring unrivaled technology and exceptional features to the densely populated territory of Hong Kong and Macau. The innovations in Noise Reduction, Security as well as Impermeability of Rain and Air will enhance the living standard and the experience of space.



100% Impermeability

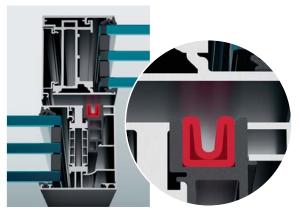
With the patented, air-assisted sealing system, air-lux sliding windows guarantee outstanding construction qualities. The circumferential ring seal ensures 100% tightness when the window closed.

Sealing with air - the air-lux sealing concept



Seal active

With the press of a button, air is introduced into the frame. This closes the gap between the slider and the fixed frame, creating a perfect seal.



Seal inactive

To open the unit, the button is pressed a second time. The air is released and the seal retracts to its original concave profile.



Data Sheet



Model:173

EN Standard



Air Permeability Classification under Standard EN 12297: 1999-11

Class 4

Driving Rain Impermeability Classification under Standard EN 12208: 1999-11

Class E1500



Wind Loading Classification under Standard EN 12210 : 1999-11 /AC:2002-80

Class C4/B4 1600 Pa, max.2400 Pa Typhoon proof beyond 5Kpa



Required Operating Forces Classification under Standard EN 133115 : 2001-07

Class 1



Heat Insulation Classification under Standard EN 10077-1 0.92W / m^2 K,U $_g$ 0.6W / m^2 K

Uw Parameter /per property $0.83W / m^2 K,U g 0..5W / m^2 K$



Burglar- proofing Resistance Classes WK2/RC2 WK3/RC3

Sliding window Height up to 3m



Noise Insulation Property-dependent up to 44 dB, also dependent on size of window element/delection of glass quality

US Standard



Air In filtration Resistance Classification under Standard **ASTM E283-04**

0.00 cfm/ft2 @ 300Pa (6.24psf)



Water Resistance Classification under Standard ASTM E331-09 Uniform Pressure ASTM E547-09 Cyclic Oressure

No Entry @ 958 Pa (20psf) No Entry @ 958 Pa (20psf)



Durability Classification under Standard

Uniforn Structural Load +/- 2394 Pa(+/- 50psf) **Design Pressure** +/- 3591 Pa(+/- 75psf) ASTM E330-02 (10)

Deglazing ASTM E987-88(09) No Damage



Classification Under Standard **ASTM E2068**

12.4 lbf initial/13.8 lbf to maintain



Isolations value

Classification Under Standard NFRC Model Size Glazed Wall System 0.18 Btu/hr.sgft. °F(1.02W/m2K) NFRC Model Size Sliding Glass Door

0.24Btu/hr.sqft. °F(1.36W/m2K)



Burglary Protection Classification under Standard ASTM F842-04 Forced Entry

No Damage @ Grade 10



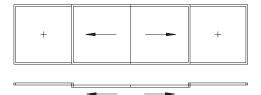
Special designs up to Resistance class BR4-NS

Tel: +852 2375 6110

Opening options



2 central casements (with vertical abutting fully glazed pane)



1 right sliding casement with 1 right fixed pane



1 left sliding casement with 1 right fixed pane (variation)



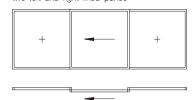
2 external casements sliding left and right over 1 central fixed pane



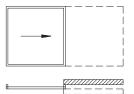
2 external casements sliding left and right over 1 central fixed pane (variation)



1 central casement sliding left over the left of two left and right fixed panes



1 left casement sliding right superimposing the exterior masonry



Openable elements can be combined with air-lux fixed panes

① Swivel-opening door



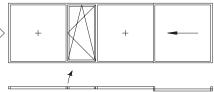
1 right casement sliding left over the right central fixed pane together with 1 left central swivel-opening casement and 1 left fixed pane







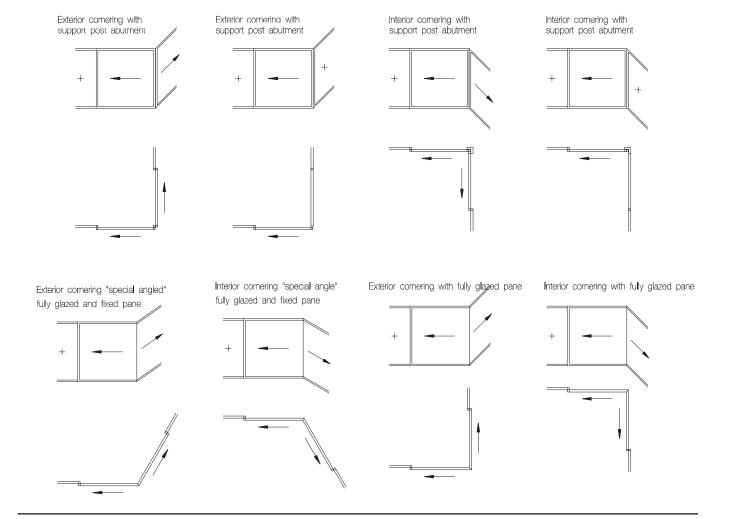




Tel : +852 2375 6110

Opening options



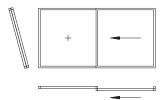


: +852 2375 6110

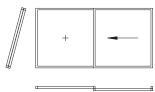
Opening options



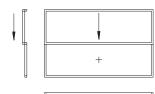
Sliding casement "outward slanted" and fixed pane



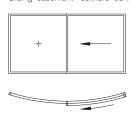
Sliding casement "inward slanted" and fixed pane



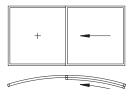
Sliding casement "top down" and fixed pane



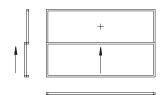
Sliding casement "outward curved" and fixed pane



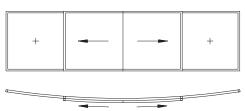
Sliding casement "inward curved" and fixed pane



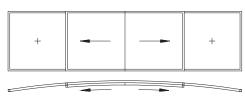
Sliding casement "bottom-up" and fixed pane



2 central casements "outward curved" (with vertical abutting fully glazed pane)



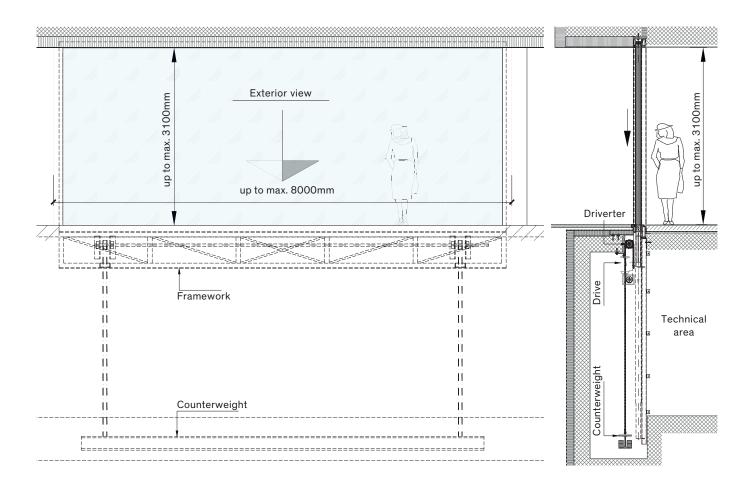
2 central casements "inward curved" (with vertical abutting fully glazed pane)



Tel : +852 2375 6110

Descending window

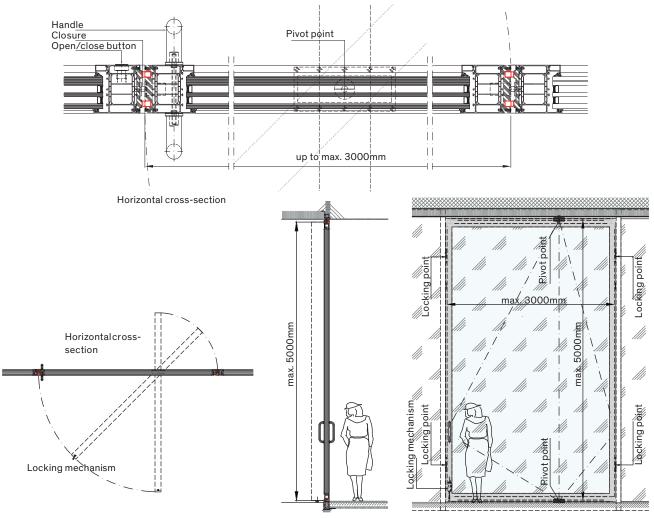




Tel : +852 2375 6110

Pivot door



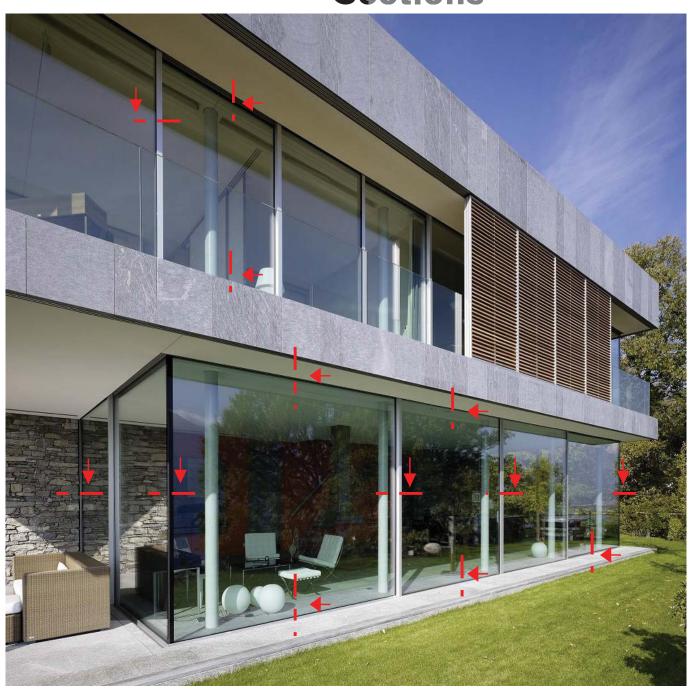


: +852 2375 6110

System Details

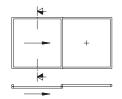
Sliding Win-dows

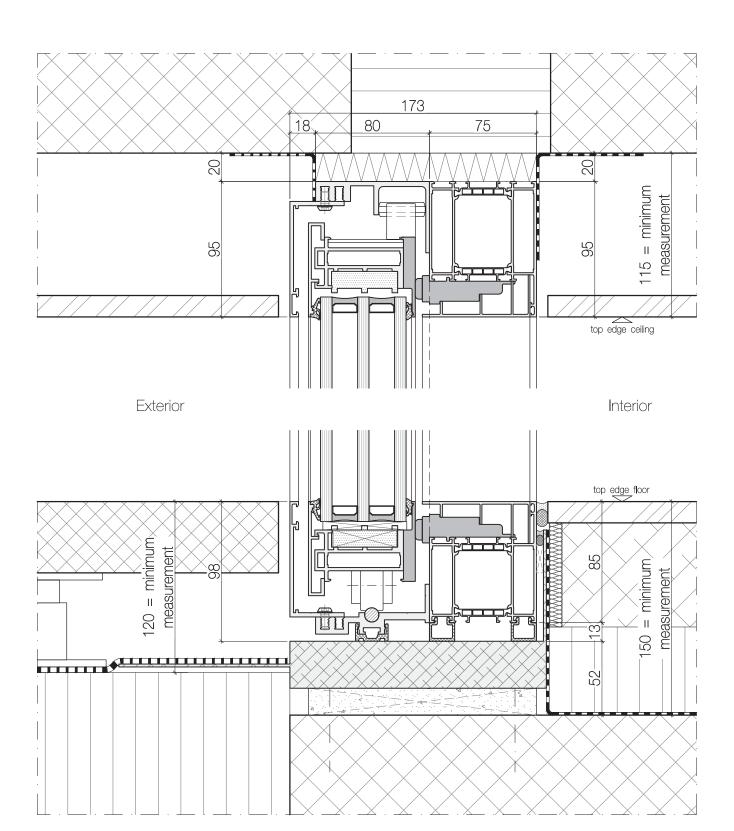
Vertical & Horizontal Sections



Vertical sections

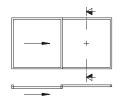
air-lux®

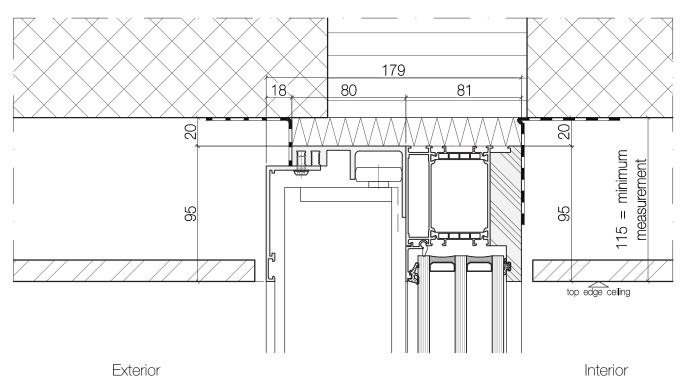


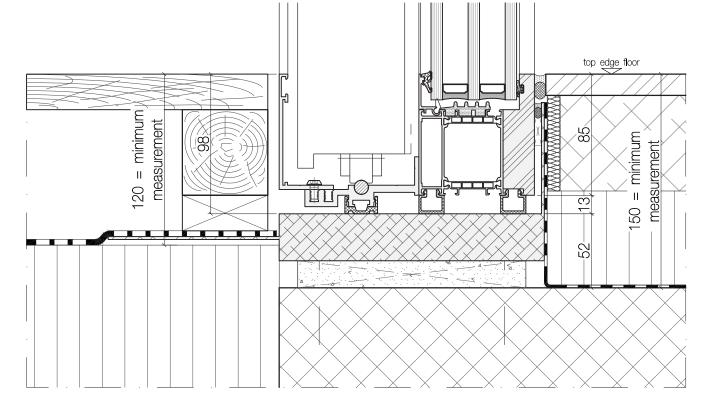


Tel : +852 2375 6110

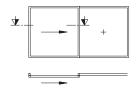
Vertical sections - Wood Connect

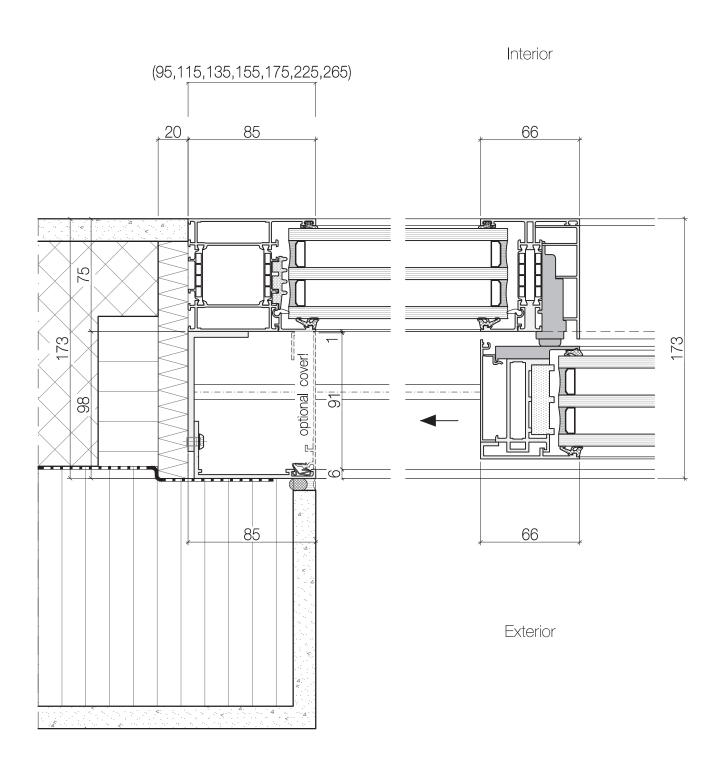






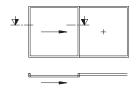




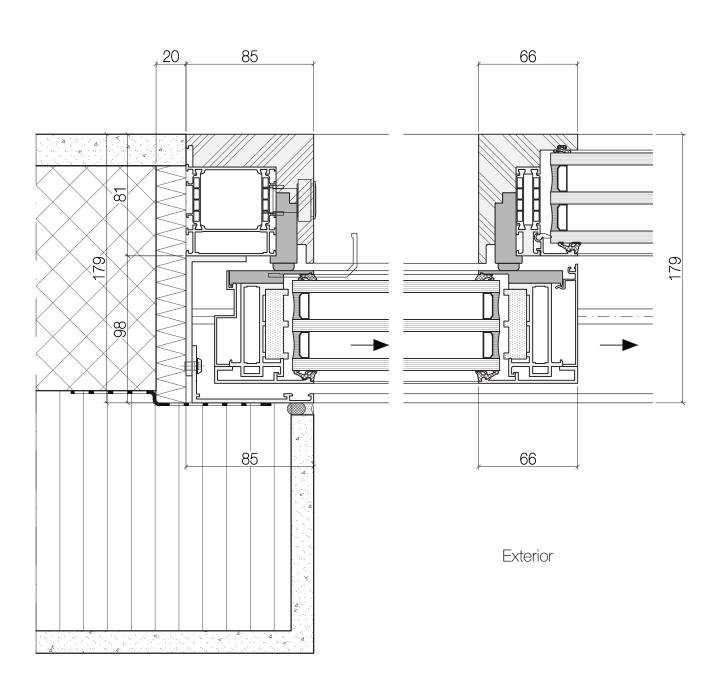


Tel : +852 2375 6110

Horizontal sections - Wood Connect

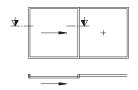


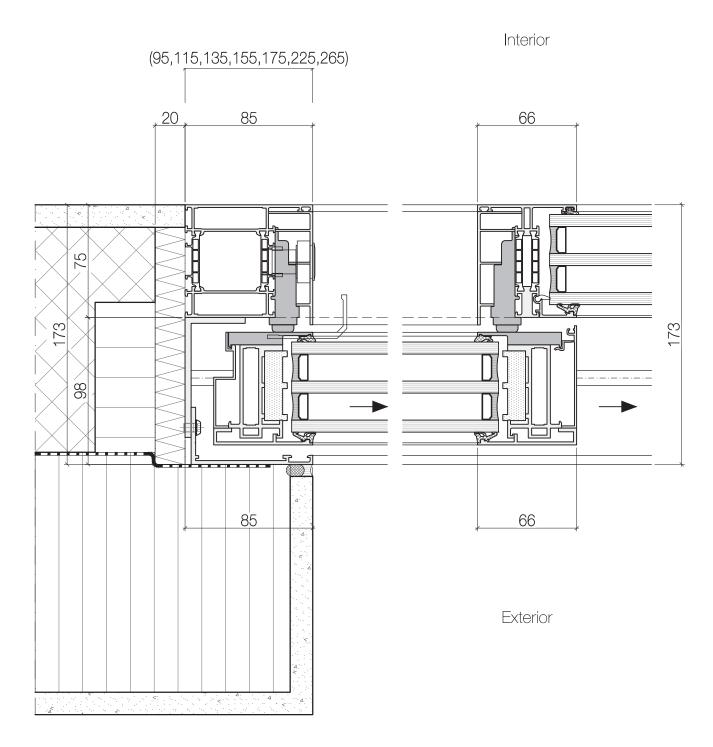
Interior



Tel : +852 2375 6110

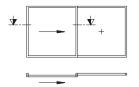


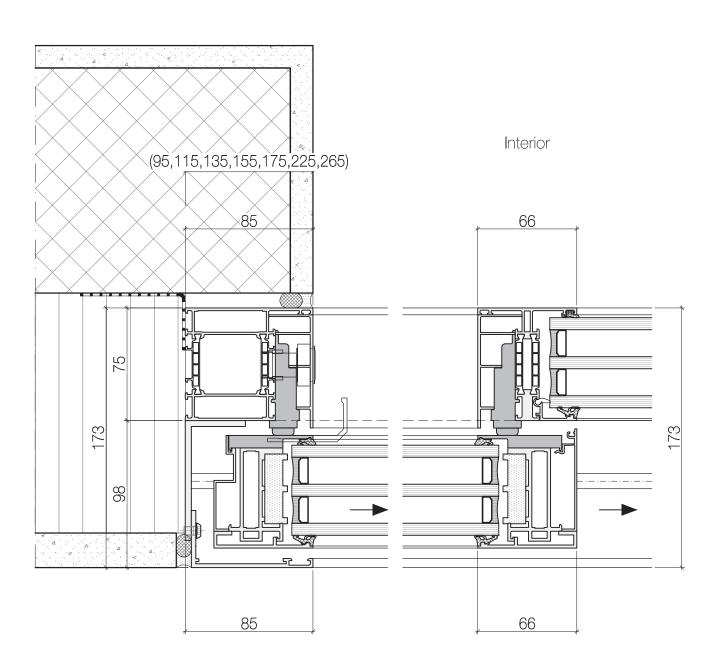




Tel : +852 2375 6110

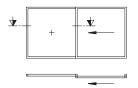


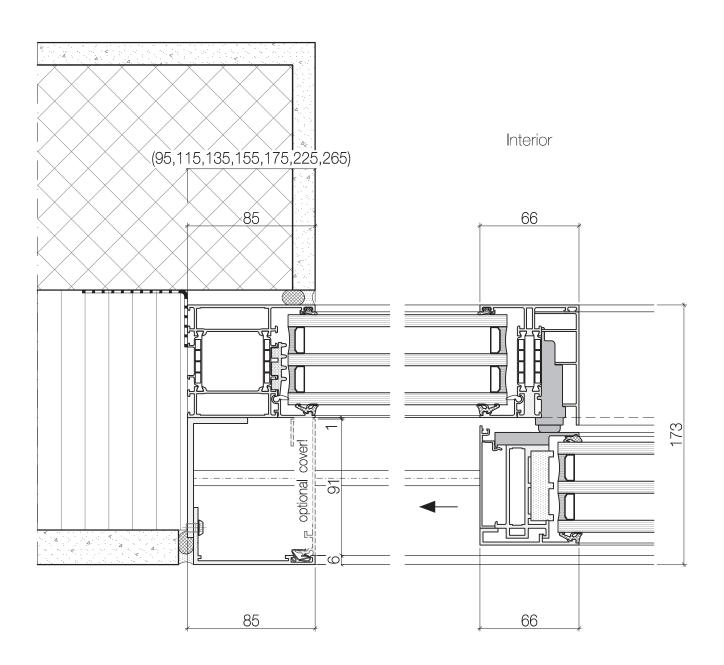




Tel : +852 2375 6110

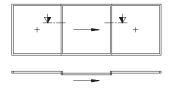




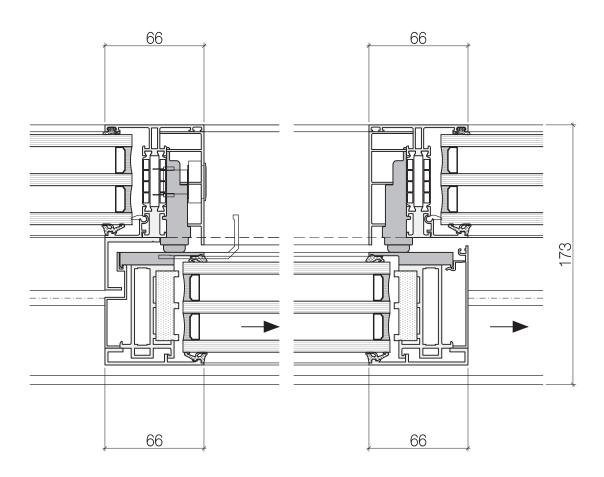


Tel : +852 2375 6110





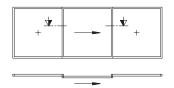
Interior

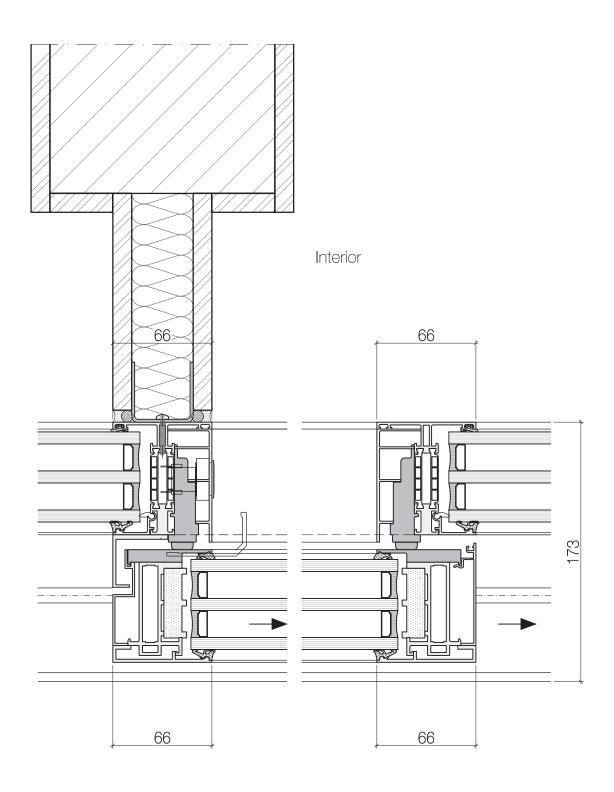


Exterior

Tel : +852 2375 6110

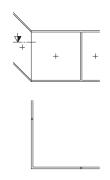


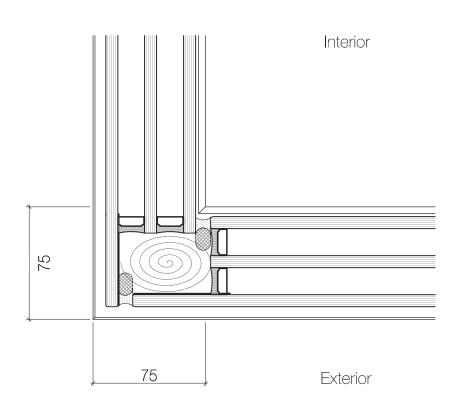


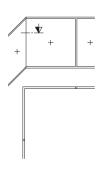


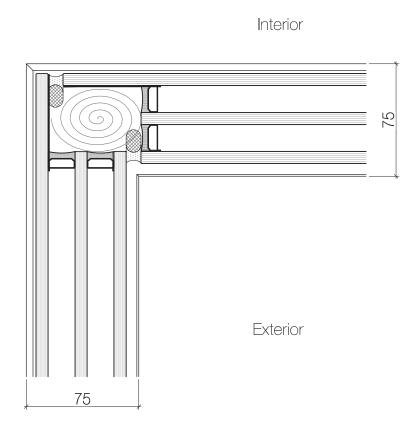
Tel : +852 2375 6110

Corner solutions - Fix / all glass



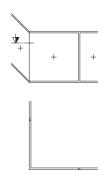


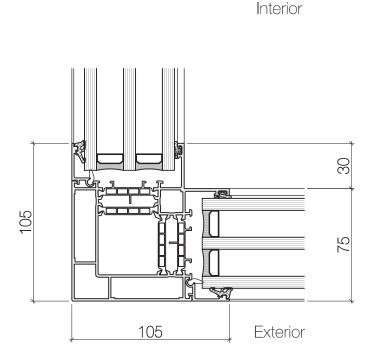


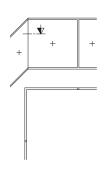


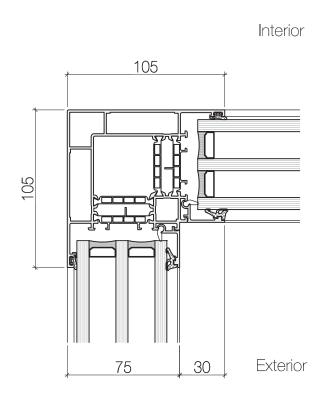
Tel : +852 2375 6110

Corner solutions - Fix / post



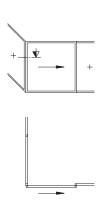


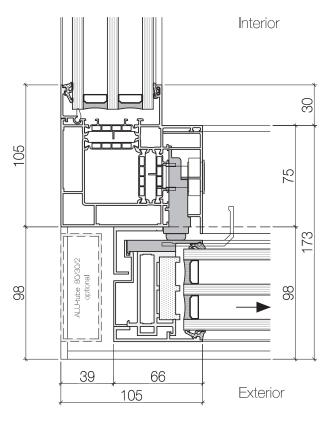


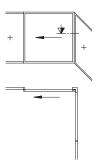


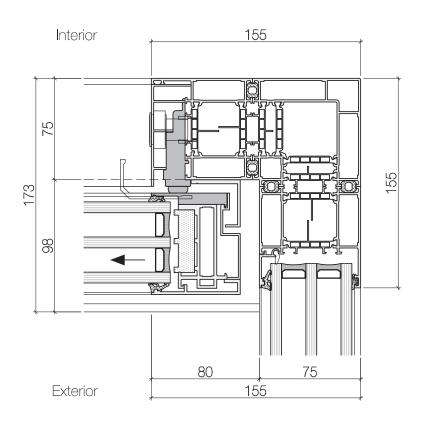
Tel : +852 2375 6110

Corner solutions - One fixed one slide



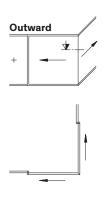


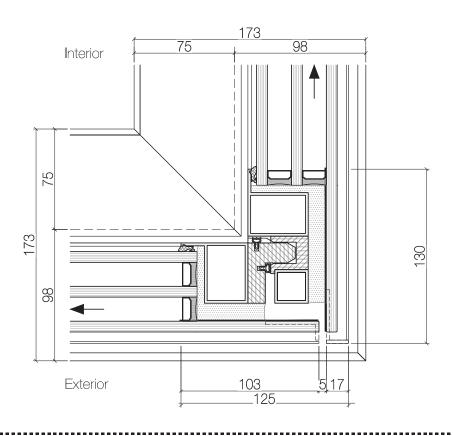


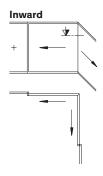


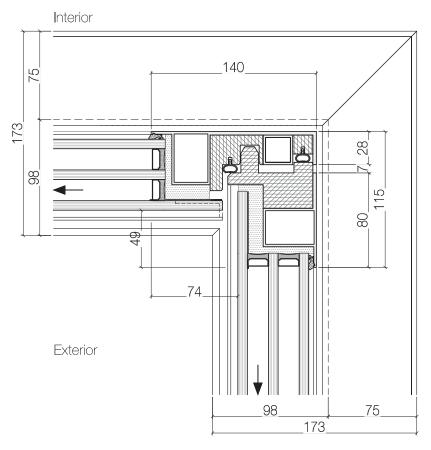
Tel : +852 2375 6110

Corner solutions - Post free / all glass



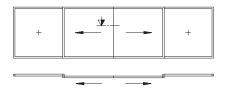




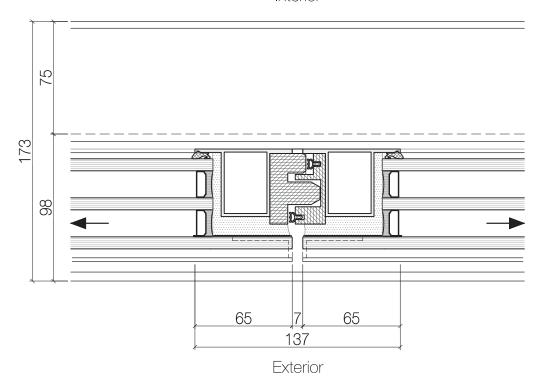


: +852 2375 6110

Integral automation, Horizontal sections -Bi-parting / all glass



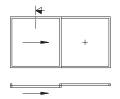
Interior

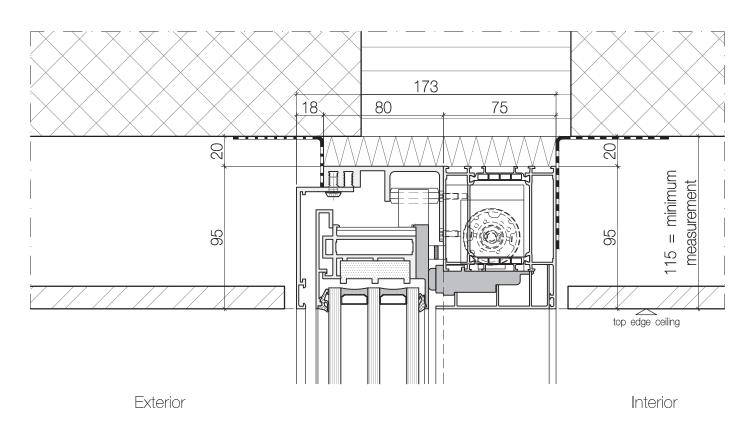




Tel: +852 2375 6110

Integral automation, Vertical sections



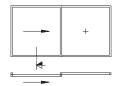


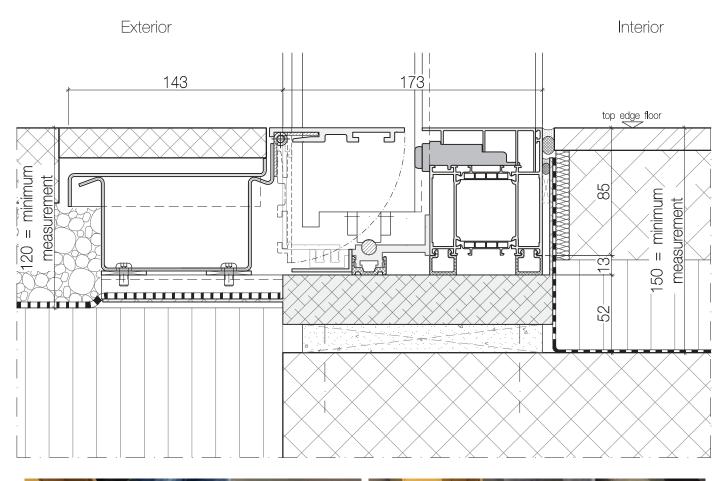


Tel : +852 2375 6110

Bottom Flip panel





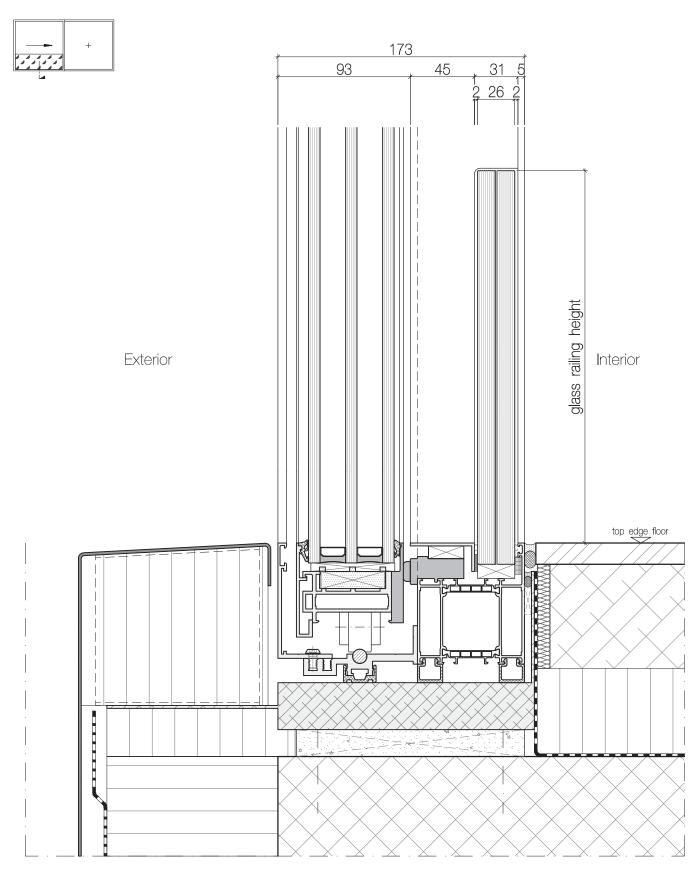






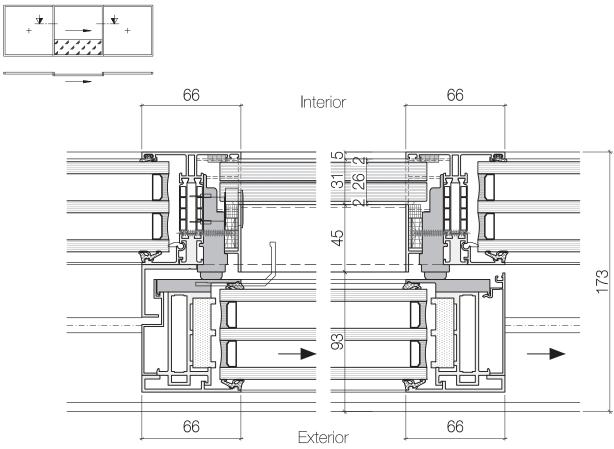
Tel : +852 2375 6110

Glass balustrade, fall protection



: +852 2375 6110

Glass balustrade, fall protection



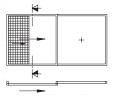
Detail glass railing

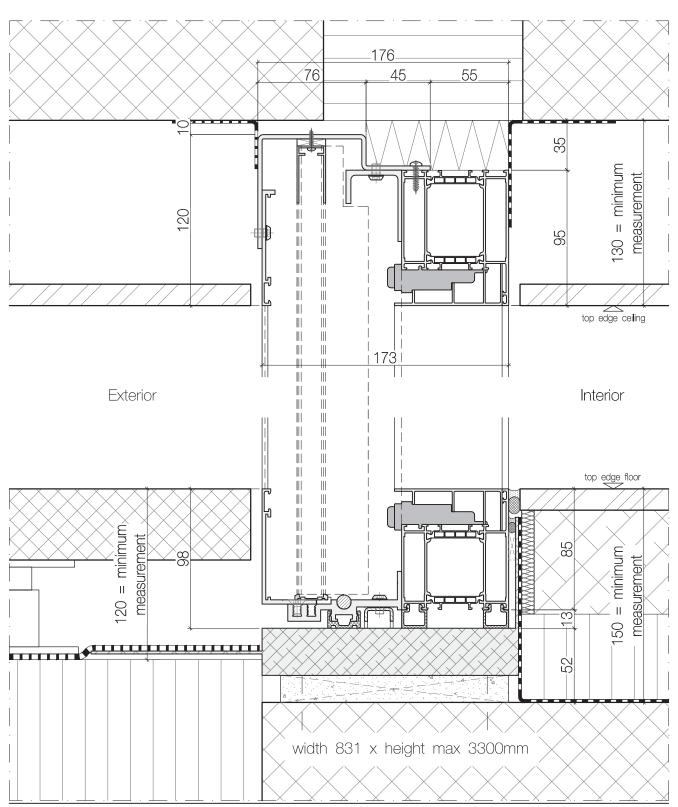
Clear width up to 2400mm: glass thickness 21mm Clear width up to 3100mm: glass thickness 26mm Clear width up to 4400mm: glass thickness 31mm



air-lux_®

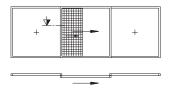
Insect screen, Vertical sections



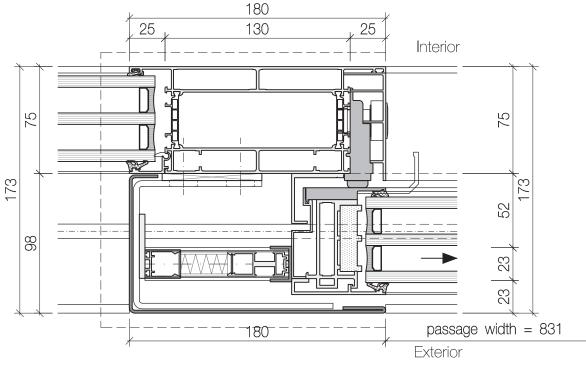


: +852 2375 6110

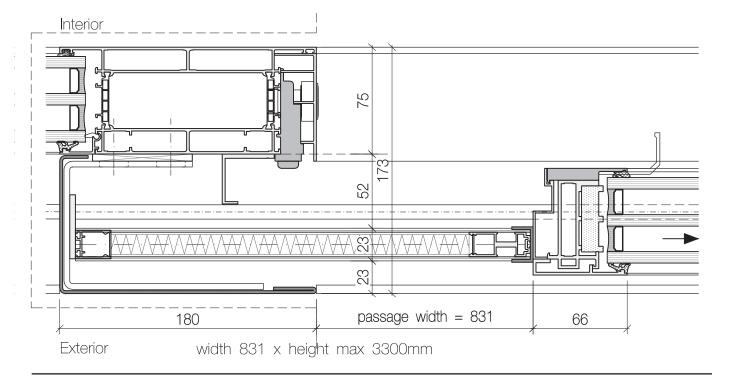
Insect screen, Horizontal sections



detail closed sliding casement

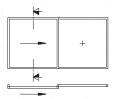


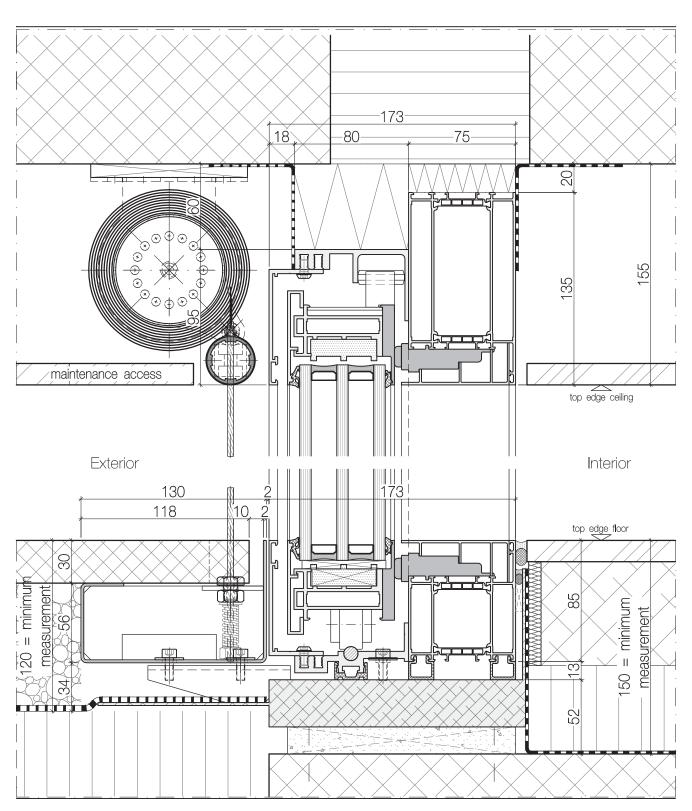
detail open sliding casement



Tel: +852 2375 6110

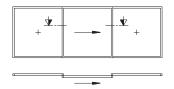
Outside sunscreen, Vertical sections

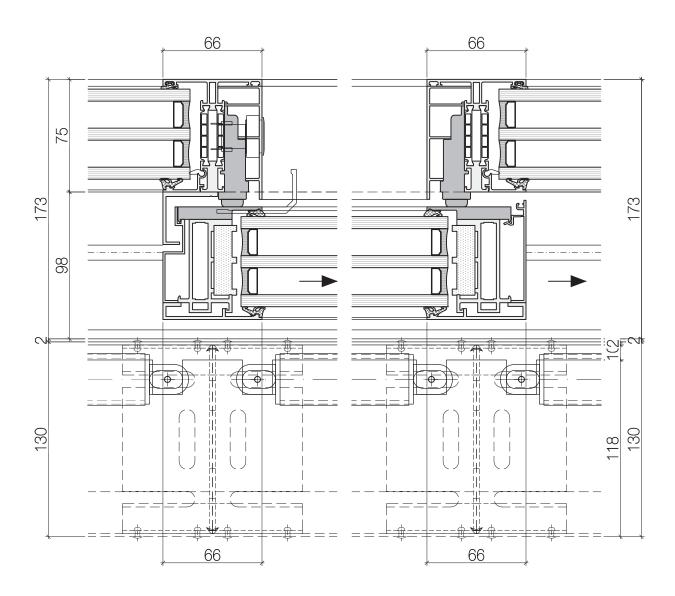




: +852 2375 6110

Outside sunscreen, **Horizontal sections**





Transport Packaging

air-lux®







Tel : +852 2375 6110

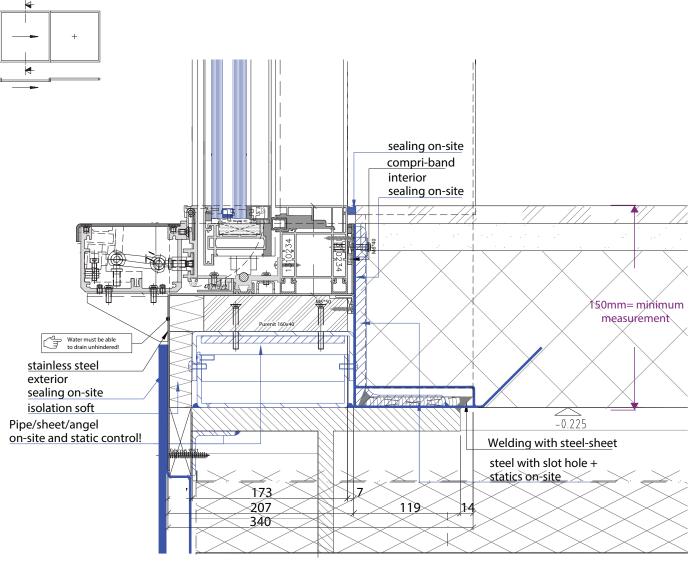
Drainage System

air-lux®



: +852 2375 6110

Horizontal sections - Project detail

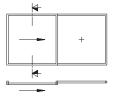


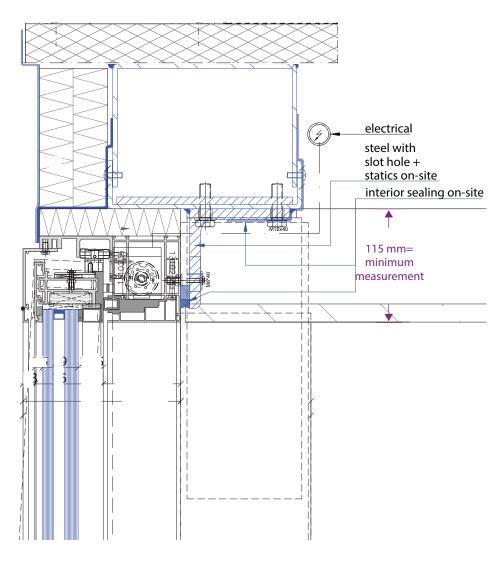




: +852 2375 6110

Vertical sections - Project detail











Tel : +852 2375 6110

Aluminum Profiles - Hong Kong Version

| KRAPF■ | Kom.Nr. | Zch. Nr. 001 | Planer MH | Datum 02.07.2019 | Objekt Bauteil | |
|---|---------|-----------------|--|--|-------------------|---|
| Profil-Bezeichnung / NR.: L-Profil 95mm Referenz-Nr.: Hong-Kong Profile Material = AW 6060 - T66 95 95 18 15 18 15 18 15 18 2 19 = 7.3286E+05 mm4 z = 6.0865E+05 mm4 Wy = 1.8546E+04 mm3 Wz = 1.0631E+04 mm A = 944 mm2 G = 2.55 Kg/m | | ly = 6.5718E | 85 18 13 13 13 13 13 13 15 15 18 18 18 18 18 18 18 18 18 18 18 18 18 | L-Profil 85mm Hong-Kong Profile AW 6060 - T66 2 | | Profil-Bezeichnung / NR.: T-Profil 66mm Referenz-Nr.: Hong-Kong Profile Material = AW 6060 - T66 Y Y |

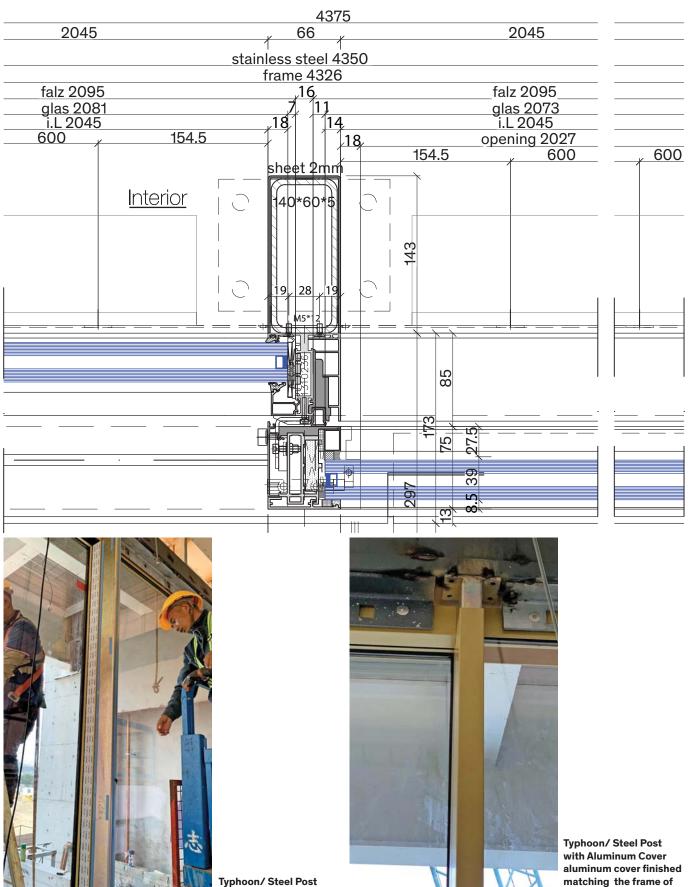




Tel : +852 2375 6110

air-lux_®

Typhoon post - Project detail



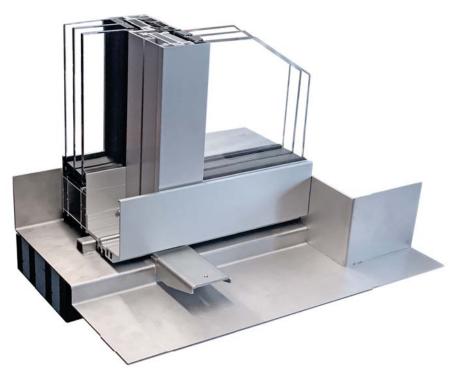
without Aluminum Cover

the sliding window

: +852 2375 6110

Sliding window accessories

Sample demo unit



316 stainless steel track rollers



316 stainless steel rod at sliding window track



: +852 2375 6110

Locking mechanism









Air seal







Window handle





Push Button



: +852 2375 6110

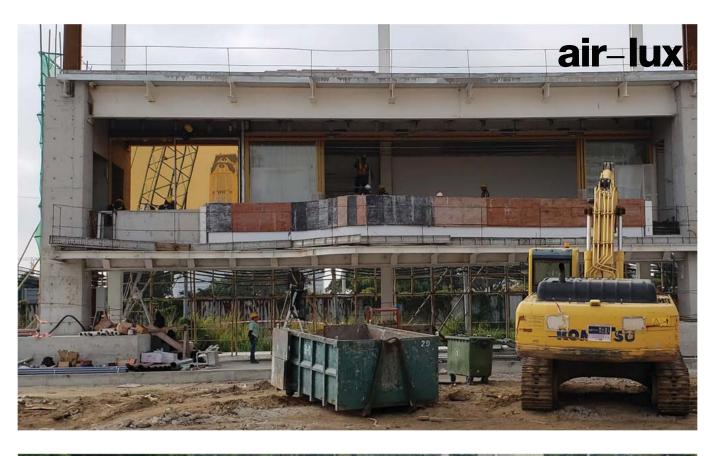


Sliding windows/ Projects





Tel : +852 2375 6110





Tel : +852 2375 6110 Fax : +852 2406 2602



AUB Limited
Unit A, 12/F, Hung Mou Industrial Building,
62 Hung To Road, Kwun Tong,

Kowloon, Hong Kong Tel:+852 2375 6110 Fax:+852 2406 2602 Email: enquiry@aub.com.hk www.aub.com.hk

